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MICB 411.01: Immunology Laboratory

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MICB 411 IMMUNOLOGY LABORATORY

Autumn Semester, 2001

Dr. Mike Minnick (HS 509B; Telephone no. 243-5972)

Lab schedule: 12:10 - 3:00 pm on Tuesdays in HS 405

Teaching Assistant(s)- TBA

<u>Date</u>	<u>Lab no.</u>	<u>Topic</u>
<u>September</u>		
4	1	Introduction
11	2	Peripheral blood smears, cell counts
18	3	Lymphoid tissues, cells and phagocytosis
25	4	Preparation of polyclonal antibody in rabbits
<u>October</u>		
2	5	Agglutination- slide, tube, blood typing
9	6	Immunoblotting (Western blotting)
16	7	Passive hemagglutination
23	8	Precipitation I- ascoli, mancini tests
30	9	Precipitation II- gel diffusion analysis, antigen titrations
<u>November</u>		
6	10	Immunofluorescence microscopy & MIDTERM EXAM
13	11	Antigen preparation / booster / antiserum collection
20	12	Complement fixation / LAB PAPER OUTLINE DUE
27	13	ELISA
<u>December</u>		
4	14	Second antiserum collection, purification and analysis
11	15	Complete analysis of all antisera, compile data
21	--	LAB FINAL (10:10 - 12:10 pm)
21	--	LAB PAPER and NOTEBOOKS DUE by 5:00 PM

GRADING- MICB 411 points are broken down as follows: 200 pts from two laboratory exams (midterm and final), 100 pts from a formal laboratory report (see below), and 70 pts from the laboratory notebook (see below). Grades are calculated by 90%, 80%, 70%, and 60% of the total points; which represent the cutoff points for an A, B, C, and D, respectively. Materials turned in late will be reduced by 10% of the total points per day of tardiness. **Students missing more than 2 labs will be required to drop the course.**

LAB PAPER- Each team will receive a rabbit for generating "monospecific" polyclonal antiserum. The protocol and results obtained from this portion of the laboratory (labs 3, 10, 13, and 14) will be summarized by each student in a type-written report. The report format will follow the publication style as set forth in American Society for Microbiology (ASM) journals (for details see Laboratory 13 & 14).

LAB NOTEBOOK- Each student will maintain a personal and comprehensive lab notebook. Loose leaf paper is **NOT** appropriate. Record your data and observations **IN PEN** for future reference. Be sure and take your notes **DURING** the lab. Evidence of post-lab entry of observations will lower your grade. Please note that lab notebooks will be picked up periodically during the semester for grading by the TA.